

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No.:	US 7,392,830 B2)	<i>Confirmation No. 9202</i>
Issued:	July 1, 2008)	
Patentees:)	This Request For Certificate Of Correction Of Patent was electronically filed on September 16, 2008 using the USPTO's EFS-Web.
Inventors:	Xun LEI et al.)	
Assignee:	WMH Tool Group, Inc.)	
Title:	MICRO-ADJUSTMENT DEVICE FOR THE STOP PLANK OF A POWER TOOL)))	
<hr/>			
Application No.:	10/656,324)	
Filed:	November 12, 2004)	
<hr/>			
Attorney Docket:	7203/82350)	
Customer No.:	22242)	

Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

ATTENTION: Certificate of Corrections Branch

**REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT
FOR PTO MISTAKE (37 C.F.R. § 1.322)**

Sir:

In accordance with 37 C.F.R. § 1.322, the above-specified Patentees, through their attorneys, respectfully request that a Certificate of Correction be issued for the above-captioned patent to correct the following error.

Patent US 7,392,830 B2

Issued July 1, 2008

REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT dated September 16, 2008

The exact page where the error occurred in the application file is as follows:

FACE OF PATENT:

In Section [54]: delete "Micro-Adjustment Device For The Angle Stop Plank Of A Planar" and insert --Micro-Adjustment Device For The Stop Plank Of A Power Tool--, therefor (from Preliminary Amendment dated 10/28/04, marked-up copy of specification).

REMARKS

The above-requested change results from an error which occurred during printing of Patent US 7,360,718 B2 and which is attributable to the United States Patent and Trademark Office ("USPTO"). It is believed that issuance of a Certificate of Correction is appropriate, and issuance of such Certificate is respectfully requested.

A Certificate of Correction form, PTO/SB/44 (also referred to as PTO 1050), incorporating the requested change is enclosed herewith.

In accordance with procedures set forth in the notice entitled "Expedited Issuance of Certificates of Correction When the Error is Attributable to the United States Patent and Trademark Office" and MPEP §1480.01 Expedited Issuance of Certificates of Correction - Error Attributable to Office", Patentees submit herewith a copy of the Preliminary Amendment dated October 28, 2004, Office Action dated January 25, 2005, Amendment B dated July 25, 2005 and of the Notice of Allowance and Fees Due dated May 1, 2008 as supporting documentation so that this request can be processed without the patent file. These materials make clear that Applicants requested the above-requested correction to the title of the invention in both their October 28, 2004 and January 25, 2005 responses and that the request was simply overlooked by the USPTO.

Patent US 7,392,830 B2

Issued July 1, 2008

REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT dated September 16, 2008

Please send the Certificate to:

Edward E. Clair, Esq.
FITCH, EVEN, TABIN & FLANNERY
120 South LaSalle Street, Suite 1600
Chicago, Illinois 60603-3406.

The Commissioner is hereby authorized to charge any additional fees which may be required in respect to this communication to Deposit Account No. 06-1135.

Respectfully submitted,

FITCH, EVEN, TABIN & FLANNERY

Dated: September 16, 2008

/Edward E. Clair/

Edward E. Clair
Registration No. 51,565

120 South LaSalle Street, Suite 1600
Chicago, Illinois 60603-3406
Telephone: 312.577.7000
Facsimile: 312.577.7007

513217

PRELIMINARY AMENDMENT
10/28/2004

Xun LEI et al.

Application No. 10/656,324, Filed September 8, 2003
"MICRO-ADJUSTMENT DEVICE FOR THE STOP
PLANK OF A POWER TOOL"
Art Unit 3725

EEC:sh
10/28/2004
7203/82350

AMENDMENT TRANSMITTAL (2 pp, in duplicate)
CORRECTION REGARDING SMALL ENTITY STATUS (2 pp, in duplicate)
INFORMATION DISCLOSURE STATEMENT (2 pp)
FORM PTO/SB/08b (1 Sheet, 1 document)
PRELIMINARY AMENDMENT (9 pp) with attached SUBSTITUTE SPECIFICATION (7 pp),
MARKED UP COPY OF SUBSTITUTE SPECIFICATION (8 pp),
SUBSTITUTE ABSTRACT (1 p); MARKED UP COPY OF ABSTRACT (1 p)
CHARGE DEPOSIT ACCOUNT: \$415.00 - Deficiency in Basic Filing Fee
36.00 - Fee for claims in excess of twenty

Hon. Commissioner of Patents and Trademarks

Sir:

Please acknowledge receipt of the above-identified documents by applying the Patent and Trademark Office receipt stamp hereto and mailing this card.

*Respectfully,
FITCH, EVEN, TABIN & FLANNERY*

Xun LEI et al.

Application No. 10/656,324, Filed September 8, 2003
"MICRO-ADJUSTMENT DEVICE FOR THE STOP
PLANK OF A POWER TOOL"
Art Unit 3725

EEC:sh
10/28/2004
7203/82350

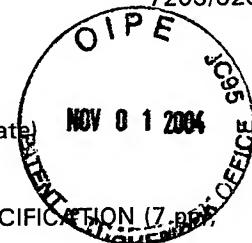
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CHARGE DEPOSIT ACCOUNT: \$415.00 - Deficiency in Basic Filing Fee
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*Respectfully,
FITCH, EVEN, TABIN & FLANNERY*

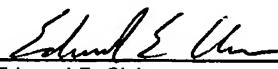


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln No.: 10/656,324) **Confirmation No. 9202**
Filed: September 8, 2003)
Applicants: Xun LEI et al.)
Title: MICRO-ADJUSTMENT DEVICE
FOR THE STOP PLANK OF A
POWER TOOL)
Art Unit: 3725) 10/28/2004
Examiner: Not yet assigned) Date
Attorney Docket No.: 7203/82350)
Customer No.: 22242)

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O Box 1450, Alexandria, VA 22313-1450, on this date.


Edward E. Clair
Registration No. 51,565
Attorney for Applicant(s)

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith is an amendment/reply in the above-identified application.

- A Correction Regarding Small Entity Status is enclosed.
- An Information Disclosure Statement and Form PTO/SB/08b is enclosed.
- A Preliminary Amendment is enclosed with a Substitute Specification and Abstract and a Marked Up Copy of Specification and Abstract.
- No additional fee is required.

Fee Calculation For Claims As Amended

	As Amended	Previously Paid For	Present Extra	Rate	Additional Fee
Independent Claims	<u>3</u>	-	<u>0</u>	x \$ 88.00	= \$ 0.00
Total Claims	<u>22</u>	-	<u>2</u>	x \$ 18.00	= \$ 36.00
Fee for Multiply Dependent Claims				\$ 300.00	\$ 0.00
** At least 3				Total Additional Fee	\$ 36.00
* At least 20					

Application No. 10/656,324
Filed September 8, 2003
Preliminary Amendment dated October 28, 2004

- Applicant(s) assert entitlement to Small Entity Status (37 C.F.R. § 1.27), thus reducing the fee by half to: _____
- A check in the amount of \$_____ is enclosed.
- Charge \$ 36.00 to Deposit Account No. 06-1135.
- The Commissioner is hereby authorized to charge any additional fees which may be required in this application under 37 C.F.R. §§1.16-1.17 during its entire pendency, or credit any overpayment, to Deposit Account No. 06-1135. Should no proper payment be enclosed herewith, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1135. A duplicate copy of this sheet is enclosed.

October 28, 2004

Date



Edward E. Clair

Registration No. 51,565

FITCH, EVEN, TABIN & FLANNERY
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln No.: 10/656,324

Confirmation No. 9202

Filed: September 8, 2003

CERTIFICATE OF MAILING

Applicants: Xun LEI et al.

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this date.

Art Unit: 3725

10/28/2004 
Date Edward E. Clair
Registration No. 51,565
Attorney for Applicant(s)

Examiner: Not yet assigned

Attorney Docket No.: 7203/82350

DOCKETED

Customer No.: 22242

NOV 03 2004

BY: D-G

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

CORRECTION REGARDING SMALL ENTITY STATUS

Sir:

Pursuant to 37 C.F.R. § 1.28(c), Applicants hereby notify the United States Patent and Trademark Office that small entity status was established in the above-identified application in error. This error occurred without any deceptive intent. The following is a calculation of the deficiency owed to the USPTO for this application:

Application No. 10/656,324

Filed September 8, 2003

CORRECTION REGARDING SMALL ENTITY STATUS dated October 28, 2004

Type of Fee	Current Fee Amount (for other than a Small Entity)	Previous Erroneous (Small Entity) Fee Payment and Date of Same
Basic Statutory Filing Fee	\$790.00	\$375.00 paid on 9/8/2003
Total Deficiency		\$415.00

The Commissioner is hereby authorized to charge the deficiency of \$415.00 to Deposit Account No. 06-1135. A duplicate copy of this document is enclosed.

The Commissioner is also hereby authorized to charge any additional fees which may be required in this application under 37 C.F.R. §§1.16-1.17 during its entire pendency, or credit any overpayment, to Deposit Account No. 06-1135.

Respectfully submitted,
FITCH, EVEN, TABIN & FLANNERY

Dated: October 28, 2004


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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln No.: 10/656,324

) **Confirmation No. 9202**

Filed: September 8, 2003

) **CERTIFICATE OF MAILING**

Applicants: Xun LEI et al.

Title: MICRO-ADJUSTMENT DEVICE
FOR THE STOP PLANK OF A
POWER TOOL

Art Unit: 3725

Examiner: Not yet assigned

) I hereby certify that this paper (along with
any paper referred to as being attached or
enclosed) is being deposited with the United
States Postal Service with sufficient postage as
first class mail in an envelope addressed to the
Commissioner for Patents, P.O. Box 1450,
Alexandria, VA 22313-1450, on this date.

) 10/28/2004

) Date Edward E. Clair
Registration No. 51,565
Attorney for Applicant(s)

Attorney Docket No.: 7203/82350

Customer No.: 22242

) **DOCKETED**

NOV 03 2004

) BY: D. C.

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. § 1.56, and in accordance with MPEP § 601 and 37 C.F.R. §§ 1.97 and 1.98, Applicants and the undersigned attorney bring the following information with respect to the above-identified application to the attention of the Examiner.

NON PATENT LITERATURE DOCUMENTS

POWERMATIC 6" Jointer Model 54A, Instruction Manual & Parts List, WMH Tool Group, published prior to September 8, 2002, 32 pages.

Application No. 10/656,324
Filed September 8, 2003
INFORMATION DISCLOSURE STATEMENT

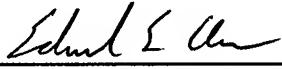
The above document is listed on Form PTO/SB/08b which accompanies this Information Disclosure Statement, and enclosed is a copy of the document listed.

Pursuant to 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The Commissioner is hereby authorized to charge any additional fees which may be required with respect to this communication, or credit any overpayment, to Deposit Account No. 06-1135.

Respectfully submitted,
FITCH, EVEN, TABIN & FLANNERY

Date: October 28, 2004


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354214

PTO/SB/08b Substitute for Form 1449B/PTO		Application Number	10/656,324		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Filing Date	September 8, 2003		
		First Named Inventor	Xun LEI et al.		
		Art Unit	3725		
<i>(Use as many sheets as necessary)</i>		Examiner Name	Not yet assigned		
Sheet	1	of	1	Attorney Docket	7203/82350

NON PATENT LITERATURE DOCUMENTS

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln No.: 10/656,324

) **Confirmation No. 9202**

Filed: September 8, 2003

) **CERTIFICATE OF MAILING**

Applicants: Xun LEI et al.

) I hereby certify that this paper (along with
any paper referred to as being attached or
enclosed) is being deposited with the United
States Postal Service with sufficient postage as
first class mail in an envelope addressed to
the Commissioner for Patents, P.O. Box 1450,
Alexandria, VA 22313-1450, on this date.

Title: MICRO-ADJUSTMENT DEVICE

FOR THE STOP PLANK OF A
POWER TOOL

Art Unit: 3725

) 10/28/2004 Edward E. Clair
Date Edward E. Clair
Registration No. 51,565
Attorney for Applicant(s)

Examiner: Not yet assigned

Attorney Docket No.: 7203/82350

Customer No.: 22242

) **DOCKETED**

NOV 03 2004

BY: D. C.

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

PRELIMINARY AMENDMENT

Sir:

This Amendment is being filed prior to the receipt of a first Office Action in the above-captioned application. Please amend the application as follows:

Amendments to the Specification and Abstract begin on page 2 of this paper and include both an attached substitute specification and abstract and a marked up copy of the substitute specification and abstract.

Amendments to the Claims are reflected in the listing of claims which begin on page 3 of this paper.

Remarks/Arguments begin on page 9 of this paper.

Application No. 10/656,324

Filed September 8, 2003

PRELIMINARY AMENDMENT dated October 28, 2004

AMENDMENTS TO THE SPECIFICATION

Due to the number and nature of the amendments made to the specification and abstract, Applicants hereby submit a substitute specification and abstract for the Examiner's review. The substitute specification and abstract include no new matter and should be used in place of the previous versions of the specification and abstract, which Applicants respectfully request be canceled.

For the Examiner's convenience, marked up versions of the substitute specification and abstract are attached showing all the changes made thereto.

Application No. 10/656,324
Filed September 8, 2003
PRELIMINARY AMENDMENT dated October 28, 2004

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

CLAIM WHAT IS CLAIMED IS:

1. (Currently amended) A micro-adjusting device for the angle stop plank of a planer comprising:

a wood conveying table, said wood conveying table connected with a holding frame at one side, said holding frame connected with a stop plank, said stop plank positioned at one side on the ~~topside top side~~ of said wood conveying table for positioning a wood material, and ~~characterized by further comprising:~~

[[A]] a hand wheel unit composed of a hand wheel and a worm, said worm actuated by said hand wheel to rotate, said worm vertically inserted in a preset part of said holding frame[[::]] ;

[[A]] a transmission rod transversely inserted in a preset part of said holding frame, said transmission rod having one end formed with a worm wheel, said worm wheel meshed with said worm of said hand wheel unit, said transmission rod having the other end formed with a transmission gear[[::]] ;

[[An]] an upper connecting rod having its front end pivotally connected with a preset part on the rear wall of said stop plank, said upper connecting rod having its rear end formed with a guiding groove, said guiding groove having its upper edge provided with multiple [[row]] teeth, said multiple [[row]] teeth meshed with said transmission gear of said transmission rod[[::]] ;

Filed September 8, 2003

PRELIMINARY AMENDMENT dated October 28, 2004

[[A]] a lower connecting rod having its rear end pivotally connected with said holding frame, said lower connecting rod having its front end pivotally connected with said stop plank[[:]] ; and

[[Said]] said hand wheel turned to actuate said upper connecting rod to move back and forth through said worm, said upper connecting rod pulling or pushing said stop plank, said stop plank able to be freely adjusted and positioned at a required angle by the turning fulcrums respectively formed at the front and the rear pivotal joint of said lower connecting rod.

2. (Currently Amended) The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said holding frame has an accommodating space formed in the center for receiving said upper connecting rod therein and a locking handle ~~transversely and pivotally~~ inserted in the opposite side of said transmission rod, said locking handle having its end ~~screwed with connected to a lock block~~, said ~~locking block lock~~ fitted ~~and limited to rotate~~ in the opposite side of said guiding groove of said upper connecting rod, said ~~locking block lock~~ able to tighten or release said upper connecting rod when said locking handle is ~~turned around~~ actuated.

3. (Currently amended) The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said holding frame is formed integral with a stop base protruding upward on one side generally abutting said upper connecting rod, and said stop base has a stop block pivotally provided thereon, said stop block able to be turned inward and positioned on said upper connecting rod in due time, said upper connecting rod provided with a bolt base protruding upward at a preset part on the topside top side and a stop bolt screwed

Filed September 8, 2003

PRELIMINARY AMENDMENT dated October 28, 2004

~~on connected to~~ said bolt base, said stop plank able to be quickly adjusted and positioned at a right angle when said stop bolt and said stop block push against each other.

4. (Currently amended) The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said lower connecting rod is shaped like a plate having a stop bolt screwed positioned at a preset location on the topside top side, said stop bolt ~~exactly~~ pushing against a preset part on the rear wall of said stop plank when said stop plank is adjusted, thus said stop plank able to be quickly adjusted and positioned at an exterior angle of 45 degrees.

5. (Currently amended) The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said upper connecting rod has a stop bolt screwed positioned at a preset location on the topside top side, said stop bolt ~~exactly~~ pushing against a preset part on the topside top side of said lower connecting rod when said stop plank is adjusted, thus said stop plank able to be quickly adjusted and positioned at an interior angle of 45 degrees.

6. (Currently amended) The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said upper connecting rod has the topside top side above said guiding groove provided with a graduation graduated ruler having angle graduations marked thereon, and said holding frame has its topside top side provided with an index hand pointing to said graduation graduated ruler to indicate a positioning angle of said stop plank after said stop plank is adjusted.

7. (Currently amended) The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said multiple [[row]] teeth in said guiding groove of said upper connecting rod [[is]] form a rack directly fixed in said guiding groove from the upper side of said upper connecting rod.

8. (New) An adjustable stop plank for a power tool having a work surface, the adjustable stop plank further comprising:

a drive mechanism connected to the stop plank for continuous adjustment of the angle of the stop plank with respect to the work surface within a predetermined range of angles; and

an actuator for operating the drive mechanism to adjust the angle of the stop plank.

9. (New) An apparatus according to claim 8, wherein the drive mechanism has an interface with at least one tooth that allows the stop plank to be moved to different angles with respect to the work surface.

10. (New) An apparatus according to claim 8, wherein the drive mechanism includes components having a meshed interface which cooperate to adjust the angle of the stop plank.

11. (New) An apparatus according to claim 8, wherein the drive mechanism has a threaded interface that allows the stop plank to be moved to different angles with respect to the work surface.

Filed September 8, 2003

PRELIMINARY AMENDMENT dated October 28, 2004

12. (New) An apparatus according to claim 11, wherein the threaded interface comprises a worm gear having a worm driven by the actuator, the worm engages a wheel connected to the stop plank so that movement of the actuator will adjust the angle of the stop plank.

13. (New) An apparatus according to claim 8, wherein the actuator is hand operated to adjust the angle of the stop plank.

14. (New) An apparatus according to claim 11, wherein the hand operated actuator is a spindle movable in a clockwise direction to adjust the angle of the stop plank in a first direction and movable in a counterclockwise direction to adjust the angle of the stop plank in a second direction.

15. (New) An apparatus according to claim 8, further comprising at least one stop to obstruct movement of the stop plank beyond at least one predetermined angle.

16. (New) An apparatus according to claim 15, wherein the at least one stop comprises an adjustable hinderer which may be adjusted to obstruct movement of the stop plank beyond the at least one predetermined angle.

17. (New) An apparatus according to claim 15, wherein the at least one stop comprises an adjustable bolt that obstructs movement of the stop plank beyond a predetermined angle.

Application No. 10/656,324

Filed September 8, 2003

PRELIMINARY AMENDMENT dated October 28, 2004

18. (New) An apparatus according to claim 8, wherein the actuator may be rotated in a clockwise or counterclockwise direction to make micro-adjustments to the angle of the stop plank.

19. (New) An apparatus according to claim 8, further comprising a display for indicating the current angle of the stop plank.

20. (New) An apparatus according to claim 19, wherein the display comprises:

indicia to indicate a plurality of angles for the stop plank; and
an index for indicating on the indicia the current angle of the stop plank.

21. (New) A planar comprising:

a base having a workpiece support table and an adjustable stop plank for positioning a workpiece; and

a display for indicating the current angle of the stop plank with respect to the workpiece support table.

22. (New) An apparatus according to claim 21 wherein the display further comprises:

indicia to indicate a plurality of angles for the stop plank; and
an index for indicating on the indicia the current angle of the stop plank.

Application No. 10/656,324
Filed September 8, 2003
PRELIMINARY AMENDMENT dated October 28, 2004

REMARKS

Upon entry of the instant Amendment, Claims 1-22 are pending in the above-captioned application.

The specification has been amended to correct a plurality of grammatical errors made therein. The claims have been amended to broaden the language used therein and to add new Claims 8-22. Support for these amendments may be found throughout the specification and, in particular, in drawing Figures 1-8. Applicants note that none of the amendments made herein are being made for purposes of patentability or to narrow the scope of the claims, thus no equivalents are intended to be surrendered by the making of such amendments. The abstract and title have also been amended to reflect the amendments to the claims.

Applicants submit that no new matter has been added to the application and respectfully request entry of the above amendments and examination and allowance of claims 1-22 as amended.

Respectfully submitted,
FITCH, EVEN, TABIN & FLANNERY

Dated: October 28, 2004


Edward E. Clair
Registration No. 51,565

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Enclosures

SUBSTITUTE SPECIFICATION

}

**MICRO-ADJUSTMENT DEVICE
FOR THE STOP PLANK OF A POWER TOOL**

BACKGROUND OF THE INVENTION

1. Field of the Invention

[0001] This invention relates to a micro-adjustment device for the angle stop plane of a planer, particularly to one able to micro-adjust the slanting angles of the angle stop plank of a planer accurately and quickly.

2. Description of the Prior Art

[0002] A conventional planer has a stop plank positioned stationary on its wood conveying table, always maintaining a single angle between the stop plank and the wood conveying table; therefore after a wood material is positioned to lean on the stop plank for planing, it can be planed only at a single angle, making it impossible to be planed at a specific angle. To carry out planing at a specific angle, it is necessary to draw a line on the wood material in advance and then perform planing with the help of certain auxiliary tools, and is impossible to plane the wood material with great accuracy, making it inconvenient in performing planing work.

[0003] In view of the above-mentioned drawback, another conventional planer is provided with an adjustable stop plank which can be adjusted and positioned at frequently employed angles, such as an interior angle of 45 degrees, a right angle or an exterior angle of 45 degrees, which is able to carry out planing at a specific angle safely and conveniently. However, although the stop plank of the conventional planer can be adjusted and positioned at certain specific angles, yet such a design cannot fully meet the needs in planing work because many wood materials may be required to be planed at other different angles rather than at the aforesaid specific angles.

SUMMARY OF THE INVENTION

[0004] A main objective of the invention is to offer a micro-adjustment device for the angle stop plank of a planer, able to accurately micro-adjust the stop plank of a planer at any angle from an interior angle of 45 degrees to an exterior angle of 45 degrees by turning around a hand wheel.

[0005] Another objective of the invention is to offer a micro-adjustment device for the angle stop plank of a planer, able to have the angle stop plank accurately and quickly adjusted at one of frequently employed specific angles, such as an interior angle of 45 degrees, a right angle and an exterior angle of 45 degrees without help of a graduation ruler.

BRIEF DESCRIPTION OF DRAWINGS

[0006] This invention will be better understood by referring to the accompanying drawings, wherein:

[0007] Fig. 1 is a partial perspective view of a micro-adjustment device for the angle stop plank of a planer in the present invention;

[0008] Fig. 2 is an exploded perspective view of the micro-adjustment device for the angle stop plank of a planer in the present invention;

[0009] Fig. 3 is a top view of the micro-adjustment device for the angle stop plank of a planer in the present invention;

[0010] Fig. 4 is a bottom view of the micro-adjustment device for the angle stop plank of a planer in the present invention;

[0011] Fig. 5 is a perspective view of the upper connecting rod of the micro-adjustment device for the angle stop plank of a planer in the present invention;

[0012] Fig. 6 is a cross-sectional view of the micro-adjustment device for the angle stop plank of a planer in the present invention, showing the angle stop plank adjusted and positioned at a right angle;

[0013] Fig. 7 is a cross-sectional view of the micro-adjustment device for the angle stop plank of a planer in the present invention, showing the angle stop plank adjusted and positioned at an exterior angle of 45-degrees; and

[0014] Fig. 8 is a cross-sectional view of the micro-adjustment device for the angle stop plank of a planer in the present invention, showing the angle stop plank adjusted and positioned at an interior angle of 45-degrees.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0015] A preferred embodiment of a micro-adjustment device for the angle stop plank of a planer in the present invention, as shown in Figs. 1 to 4, includes a wood-conveying table 10, a holding frame 20, a stop plank 30, a hand wheel unit 40, a transmission rod 50, an upper connecting rod 60, a lower connecting rod 70 and a locking handle 80 combined together.

[0016] The wood-conveying table 10 has one side combined with the upper holding frame 20 connected with the stop plank 30, which is located at one side on the top side of the wood-conveying table 10 for a wood material to be leaned thereon during planing.

[0017] The holding frame 20 has an inverted U-shaped body, having an accommodating space 21 formed in the center, and an index hand 22 provided at a preset location of the top side and pointing to one side of the accommodating space 21.

[0018] The stop plank 30 has its front side formed with a leaning surface 31 for a wood material to lean thereon and its rear lower side locked with two connecting bolts 32 separately positioned at preset locations and respectively having a lateral

insert hole 321. The stop plank 30 further has a rod-connecting base 33 with a lateral shaft hole 331 secured near the upper edge of its rear central wall.

[0019] The hand wheel unit 40 consists of a hand wheel 41 and a worm 42 actuated to rotate by the hand wheel 41. The worm 42 is vertically inserted in a through hole 26 in the top side of the holding frame 20.

[0020] The transmission rod 50 to be transversely inserted in the holding frame 20 and positioned at the lower end of the worm 42 of the hand wheel unit 40. The transmission rod 50 has one end provided with a worm wheel 51 to be meshed with the worm 42 and the other end formed with a transmission gear 52.

[0021] The upper connecting rod 60, as shown in Fig. 5, to be positioned in the accommodating space 21 of the holding frame 20, is provided with a bolt 61 at the front end to be inserted in the shaft hole 331 of rod-connecting base 33 fixed at the rear wall of the stop plank 30, and a rack 62 at the rear upper side, with a guiding groove 63 formed beneath the rack 62, which is formed with multiple row teeth 621 to be meshed with the transmission gear 52 of the transmission rod 50. Further, the upper connecting rod 60 has the top side above the guiding groove 63 provided with a graduated ruler 64 having angle graduations marked thereon. Thus, the graduated ruler 64 on the upper connecting rod 60 in cooperation with the index hand 22 on the holding frame 20 can indicate the positioning angle of the stop plank 30 after it is adjusted.

[0022] The lower connecting rod 70 is shaped like a plate and has two bolts 71 respectively provided at the opposite ends of its rear side to be respectively and pivotally inserted in two insert holes 23 at the opposite lower front sides of the holding frame 20, and another two bolts 71 respectively provided at the opposite ends of its front side to be respectively and pivotally inserted in the two insert holes 321 of the two connecting bolts 32 of the stop plank 30. Thus, the pivotal joints of the lower connecting rod 70 with the holding frame 20 and the stop plank 30 respectively make up a turning fulcrum.

[0023] The locking handle 80 is transversely and pivotally inserted in the left side of the holding frame 20 and positioned opposite to the worm 42. The locking handle 80 has its end screwed with a locking block 81 to be fitted in the opposite side of the guiding groove 63 of the upper connecting rod 60 and limited to rotate therein. Thus, when the locking handle 80 is turned and locked tightly, its locking block 81 will be actuated to push tightly against or release the upper connecting rod 60.

[0024] In addition, the micro-adjustment device of this invention is also provided with three positioning methods able to quickly position the stop plank at three specific angles:

[0025] 1. A positioning method of a right angle: Referring to Fig. 6, the holding frame 20 is formed integral with a stop base 24 protruding upward on one side abutting the upper connecting rod 60. The stop base 24 has a pivotal stop block 25 able to be rotated and positioned on the top side of the upper connecting rod 60 at times. The upper connecting rod 60 is provided with a bolt base 65 protruding upward at a preset location on the top side thereof and having a stop bolt 66 screwed therein. Thus, when the stop plank 30 is turned and adjusted, the stop bolt 66 of the upper connecting rod 60 and the stop block 25 of the holding frame 20 will push against each other and quickly position the stop plank 30 at the angle of 90 degrees.

[0026] 2. A positioning method of an exterior angle of 45 degrees: Referring to Fig. 7, the lower connecting rod 70 is provided with a stop bolt 72 at a preset location on the top side thereof. Thus, when the stop plank 30 is turned and adjusted, the stop bolt 72 of the lower connecting rod 70 will push against a preset part on the rear wall of the stop plank 30 and quickly position the stop plank 30 at the exterior angle of 45 degrees.

[0027] 3. A positioning method of an interior angle of 45 degrees: Referring to Fig. 8, the upper connecting rod 60 is provided with a stop bolt 67, in front of the

bolt base 65, on the top side thereof. Thus, when the stop plank 30 is turned and adjusted, the stop bolt 67 will push against a preset part on the top side of the lower connecting rod 70 and quickly position the stop plank 30 at the interior angle of 45 degrees.

[0028] In operating and using the micro-adjustment device, as shown in Figs. 6, 7 and 8, before the stop plank 30 is adjusted, the stop bolt 66 on the upper connecting rod 60 for positioning an angle of 90 degrees and the stop bolt 67 for positioning an exterior angle of 45 degrees and the stop bolt 72 on the lower connecting rod 70 for positioning an interior angle of 45 degrees are respectively screwed and adjusted to an accurate position. Thus, when the hand wheel 41 is turned around, the upper connecting rod 60 will be actuated by the worm 42 and the transmission rod 50 to pull or push the stop plank 30, and simultaneously the stop plank 30 will be turned in a specific direction by means of the turning fulcrums respectively formed at the pivotal joints at the front and the rear end of the lower connecting rod 70.

[0029] Specifically, to position the stop plank 30 at the interior angle of 45 degrees, the hand wheel 41 is turned in a proper direction to let its worm 42 actuate the worm wheel 51 of the transmission rod 50 to rotate. In the meantime, the transmission rod 50 rotates, having its transmission gear 52 actuate the row of teeth 621 together with the upper connecting rod 60 to move forward and push the stop plank 30 to force the upper portion of the stop plank 30 to slant outward until the stop bolt 67 adjusted in advance on the upper connecting rod 60 exactly pushes against the top side of the lower connecting rod 70, thus able to position the stop plank 30 at the interior angle of 45 degrees.

[0030] To position the stop plank 30 at the right angle, the stop block 25 on the holding frame 20 is pulled toward the upper connecting rod 60 and lies on the top side of the upper connecting rod 60. Then, the hand wheel 41 is turned counter-clockwise to let the row of teeth 621 of the upper connecting rod 60 actuated by the transmission gear 52 of the transmission rod 50 to move backward and pull the

stop plank 30 until the stop bolt 66 adjusted in advance on the upper connecting rod 60 exactly pushes against the stop block 25, thus able to position the stop plank 30 at the right angle.

[0031] To position the stop plank 30 at the exterior angle of 45 degrees, the stop block 25 of the holding frame 20 is pulled outward to enable the upper connecting rod 60 to move backward smoothly. Then, the hand wheel 41 is turned around to let the row of teeth 621 together with the upper connecting rod 60 actuated by the transmission gear 52 of the transmission rod 50 to move backward and pull the stop plank 30 until a preset part on the rear wall of the stop plank 30 exactly pushes against the stop bolt 72 on the top side of the lower connecting rod 70, thus able to position the stop plank 30 at an exterior angle of 45 degrees. The scope of the adjustable angle of the stop plank 30 is 90 degrees from the interior 45 degrees to the exterior 45 degrees.

[0032] Apart from being quickly positioned at the above-mentioned specific angles, the stop plank 30 can also be precisely micro-adjusted at any angle, as shown in Fig. 3. To micro-adjust the stop plank 30, the hand wheel 41 is turned around to actuate the upper connecting rod 60 to move back or forth and push or pull the stop plank 30 to control its slanting angle. As mentioned above, the holding frame 20 is provided thereon with the index hand 22 pointing to the graduated ruler 64 on the upper connecting rod 60; therefore when the hand wheel 41 is turned to micro-adjust the stop plank, the upper connecting rod 60 is moved back or forth according to the angle graduations indicated on the angle graduation ruler 64 by the index hand 22 so as to micro-adjust and position the stop plank 30 at an expected angle precisely and quickly.

[0033] While the preferred embodiment of the invention has been described above, it will be recognized and understood that various modifications may be made therein and the appended claims are intended to cover all such modifications that may fall within the spirit and scope of the invention.

**MARKED UP COPY OF
SUBSTITUTE SPECIFICATION**

MICRO-ADJUSTMENT DEVICE
FOR THE [[ANGLE]] STOP PLANK OF A PLANER POWER TOOL

BACKGROUND OF THE INVENTION

1. Field of the Invention

[0001] This invention relates to a micro-adjustment device for the angle stop plane of a planer, particularly to one able to micro-adjust the slanting angles of the angle stop plank of a planer accurately and quickly.

2. Description of the Prior Art

[0002] A conventional planer has a stop plank positioned stationary on its wood conveying table, always maintaining a single angle between the stop plank and the wood conveying table; therefore after a wood material is positioned to lean on the stop plank for planing, it can be planed only at a single angle, making it impossible to be planed at a specific angle. To carry out planing at a specific angle, it is necessary to draw a line on the wood material in advance and then perform planing with the help of certain auxiliary tools, and is impossible to plane the wood material with great accuracy, making it inconvenient in performing planing [[wok]] work and likely to cause danger during planing.

[0003] In view of the above-mentioned drawback, another conventional planer is provided with an adjustable stop plank which can be adjusted and positioned at frequently employed angles, such as an interior angle of 45 degrees, a right angle or an exterior angle of 45 degrees, which is able to carry out planing at a specific angle safely and conveniently. [[[0004]]] However, although the stop plank of the conventional planer can be adjusted and positioned at certain specific angles, yet such a design cannot fully meet the needs in planing work because many wood materials may be required to be planed at other different angles rather than at the aforesaid specific angles.

SUMMARY OF THE INVENTION

[0004] A main objective of the invention is to offer a micro-adjustment device for the angle stop plank of a planer, able to accurately micro-adjust the stop plank of a planer at any angle from an interior angle of 45 degrees to an exterior angle of 45 degrees by turning around a hand wheel.

[0005] Another objective of the invention is to offer a micro-adjustment device for the angle stop plank of a planer, able to have the angle stop plank accurately and quickly adjusted at one of frequently employed specific angles, such as an interior angle of 45 degrees, a right angle and an exterior angle of 45 degrees without help of a graduation ruler.

BRIEF DESCRIPTION OF DRAWINGS

[0006] This invention will be better understood by referring to the accompanying drawings, wherein:

[0007] Fig. 1 is a partial perspective view of a micro-adjustment device for the angle stop plank of a planer in the present invention[[:]];

[0008] Fig. 2 is an exploded perspective view of the micro-adjustment device for the angle stop plank of a planer in the present invention[[:]];

[0009] Fig. 3 is a top view of the micro-adjustment device for the angle [[stoop]] stop plank of a planer in the present invention[[:]];

[0010] Fig. 4 is a bottom view of the micro-adjustment device for the angle stop plank of a planer in the present invention[[:]];

[0011] Fig. 5 is a perspective view of the upper connecting rod of the micro-adjustment device for the angle stop plank of a planer in the present invention[[:]];

[0012] Fig. 6 is a cross-sectional view of the micro-adjustment device for the angle stop plank of a planer in the present invention, showing the angle stop plank adjusted and positioned at a right angle[[::]] ;

[0013] Fig. 7 is a cross-sectional view of the micro-adjustment device for the angle stop plank of a planer in the present invention, showing the angle stop plank adjusted and positioned at an exterior angle of 45-degrees[[::]] ; and

[0014] Fig. 8 is a cross-sectional view of the micro-adjustment device for the angle stop plank of a planer in the present invention, showing the angle stop plank adjusted and positioned at an interior angle of 45-degrees.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0015] A preferred embodiment of a micro-adjustment device for the angle stop plank of a planer in the present invention, as shown in Figs. 1 to 4, includes a wood-conveying table 10, a holding frame 20, a stop plank 30, a hand wheel unit 40, a transmission rod 50, an upper connecting rod 60, a lower connecting rod 70 and a locking handle 80 combined together.

[0016] The wood-conveying table 10 has one side combined with the upper holding frame 20 connected with the stop plank 30, which is located at one side on the ~~topside top side~~ of the wood-conveying table 10 for a wood material to be leaned thereon during planing.

[0017] The holding frame 20 [[is]] ~~has an inverted-U-shaped~~ inverted U-shaped body, having an accommodating space 21 formed in the center, and an index hand 22 provided at a preset location of the ~~topside top side~~ and pointing to one side of the accommodating space 21.

[0018] The stop plank 30 has its front side formed with a leaning surface 31 for a wood material to lean thereon and its rear lower side locked with two connecting bolts 32 separately positioned at preset locations and respectively having a lateral

insert hole 321. The stop plank 30 further has a rod-connecting base 33 with a lateral shaft hole 331 secured near the upper edge of its rear central wall.

[0019] The hand wheel unit 40 consists of a hand wheel 41 and a worm 42 actuated to rotate by the hand wheel 41. The worm 42 is vertically inserted in a through hole 26 in the topside top side of the holding frame 20.

[0020] The transmission rod 50 to be transversely inserted in the holding frame 20 and positioned at the lower end of the worm 42 of the hand wheel unit 40. The transmission rod 50 has one end provided with a worm wheel 51 to be meshed with the worm 42 and the other end formed with a transmission gear 52.

[0021] The upper connecting rod 60, as shown in Fig. 5, to be positioned in the accommodating space 21 of the holding frame 20, is provided with a bolt 61 at the front end to be inserted in the shaft hole 331 of rod-connecting base 33 fixed at the rear wall of the stop plank 30, and a rack 62 at the rear upper side, with a guiding groove 63 formed beneath the rack 62, which is formed with multiple row teeth 621 to be meshed with the transmission gear 52 of the transmission rod 50. Further, the upper connecting rod 60 has the topside top side above the guiding groove 63 provided with a ~~graduation graduated~~ ruler 64 having angle graduations marked thereon. Thus, the ~~graduation graduated~~ ruler 64 on the upper connecting rod 60 in cooperation with the index hand 22 on the holding frame 20 can indicate the positioning angle of the stop plank 30 after it is adjusted.

[0022] The lower connecting rod 70 is shaped like a plate and has two bolts 71 respectively provided at the opposite ends of its rear side to be respectively and pivotally inserted in two insert holes 23 at the opposite lower front sides of the holding frame 20, and another two bolts 71 respectively provided at the opposite ends of its front side to be respectively and pivotally inserted in the two insert holes 321 of the two connecting bolts 32 of the stop plank 30. Thus, the pivotal joints of the lower connecting rod 70 with the holding frame 20 and the stop plank 30 respectively make up a turning fulcrum.

[0023] The locking handle 80 is transversely and pivotally inserted in the left side of the holding frame 20 and positioned opposite to the worm 42. The locking handle 80 has its end screwed with a locking block 81 to be fitted in the opposite side of the guiding groove 63 of the upper connecting rod 60 and limited to rotate therein. Thus, when the locking handle 80 is turned and locked tightly, its locking block 81 will be actuated to push tightly against or release the upper connecting rod 60.

[0024] In addition, the micro-adjustment device of this invention is also provided with three positioning methods able to quickly position the stop plank at three specific angles[[.]] :

[0025] 1. A positioning method of a right angle: Referring to Fig. 6, the holding frame 20 is formed integral with a stop base 24 protruding upward on one side abutting the upper connecting rod 60. The stop base 24 is ~~pivotal~~ provided with ~~a~~ has a pivotal stop block 25 able to be rotated and positioned on the ~~topside~~ top side of the upper connecting rod 60 ~~in due time~~ at times. The upper connecting rod 60 is provided with a bolt base 65 protruding upward at a preset location on the ~~topside~~ top side thereof and having a stop bolt 66 screwed ~~thereon~~ therein. Thus, when the stop plank 30 is turned and adjusted, the stop bolt 66 of the upper connecting rod 60 and the stop block 25 of the holding frame 20 will push against each other and quickly position the stop plank 30 at the angle of 90 degrees.

[0026] 2. A positioning method of an exterior angle of 45 degrees: Referring to Fig. 7, the lower connecting rod 70 is provided with a stop [[blot]] bolt 72 at a preset location on the ~~topside~~ top side thereof. Thus, when the stop plank 30 is turned and adjusted, the stop bolt 72 of the lower connecting rod 70 will push against a preset part on the rear wall of the stop plank 30 and quickly position the stop plank 30 at the exterior angle of 45 degrees.

[0027] 3. A positioning method of an interior angle of 45 degrees: Referring to Fig. 8, the upper connecting rod 60 is provided with a stop bolt 67, in front of the bolt base 65, on [[its]] the topside top side thereof. Thus, when the stop plank 30 is turned and adjusted, the stop bolt 67 will push against a preset part on the topside top side of the lower connecting rod 70 and quickly position the stop plank 30 at the interior angle of 45 degree degrees.

[0028] In operating and using the micro-adjustment device, as shown in Figs. 6, 7 and 8, before the stop plank 30 is adjusted, the stop bolt 66 on the upper connecting rod 60 for positioning an angle of 90 degrees and the stop bolt 67 for positioning an exterior angle of 45 degrees and the stop bolt 72 on the lower connecting rod 70 for positioning an interior angle of 45 degrees are respectively screwed and adjusted to an accurate position. Thus, when the hand wheel 41 is turned around, the upper connecting rod 60 will be actuated by the worm 42 and the transmission rod 50 to pull or push the stop plank 30, and simultaneously the stop plank 30 will be turned in a specific direction by means of the turning fulcrums respectively formed at the pivotal joints at the front and the rear end of the lower connecting rod 70.

[0029] Specifically, to position the stop plank 30 at the interior angle of 45 degrees, the hand wheel 41 is turned in a proper direction to let its worm 42 actuate the worm wheel 51 of the transmission rod 50 to rotate. In the meantime, the transmission rod 50 rotates, having its transmission gear 52 actuate the row of teeth 621 together with the upper connecting rod 60 to move forward and push the stop plank 30 to force the upper portion of the stop plank 30 to slant outward until the stop bolt 67 adjusted in advance on the upper connecting rod 60 exactly pushes against the topside top side of the lower connecting rod 70, thus able to position the stop plank 30 at the interior angle of 45 degrees.

[0030] To position the stop plank 30 at the right angle, the stop block 25 on the holding frame 20 is pulled toward the upper connecting rod 60 and lies on the topside top side of the upper connecting rod 60. Then, the hand wheel 41 is turned

counterclockwise to let the row of teeth 621 of the upper connecting rod 60 actuated by the transmission gear 52 of the transmission rod 50 to move backward and pull the stop plank 30 until the stop bolt 66 adjusted in advance on the upper connecting rod 60 exactly pushes against the stop block 25, thus able to position the stop plank 30 at the right angle.

[0031] To position the stop plank 30 at the exterior angle of 45 degrees, the stop block 25 of the holding frame 20 is pulled outward to enable the upper connecting rod 60 to move backward smoothly. Then, the hand wheel 41 is turned around to let the ~~row-teeth~~ row of teeth 621 together with the upper connecting rod 60 actuated by the transmission gear 52 of the transmission rod 50 to move backward and pull the stop plank 30 until a preset part on the rear wall of the stop plank 30 exactly pushes against the stop bolt 72 on the topside top side of the lower connecting rod 70, thus able to position the stop plank 30 at an exterior angle of 45 degrees. The scope of the adjustable angle of the stop plank 30 is 90 degrees from the interior 45 degrees to the exterior 45 degrees.

[0032] Apart from being quickly positioned at the above-mentioned specific angles, the stop plank 30 can also be precisely micro-adjusted at any angle, as shown in Fig. 3. To micro-adjust the stop plank 30, the hand wheel 41 is turned around to actuate the upper connecting rod 60 to move back or forth and push or pull the stop plank 30 to control its slanting angle. As mentioned above, the holding frame 20 is provided thereon with the index hand 22 pointing to the graduation graduated ruler 64 on the upper connecting rod 60; therefore when the hand wheel 41 is turned to micro-adjust the stop plank, the upper connecting rod 60 is moved back or forth according to the angle graduations indicated on the angle graduation ruler 64 by the index hand 22 so as to micro-adjust and position the stop plank 30 at an expected angle precisely and quickly.

[0033] While the preferred embodiment of the invention has been described above, it will be recognized and understood that various modifications may be

made therein and the appended claims are intended to cover all such modifications that may fall within the spirit and scope of the invention.

SUBSTITUTE ABSTRACT

ABSTRACT OF THE INVENTION

An adjustable stop plank for a power tool includes a drive mechanism connected to the stop plank for continuous adjustment of the angle of the stop plank with respect to the work surface and has a display for indicating the current angle of the stop plank. In one form, the micro-adjusting device for the stop plank of a power tool includes a hand wheel unit provided on the holding frame operable to continuously adjust the angle of the stop plank. The power tool may include indicia to indicate a plurality of angles for the stop plank and an index for indicating on the indicia the current angle of the stop plank.

**MARKED UP COPY OF
SUBSTITUTE ABSTRACT**

ABSTRACT OF THE INVENTION

An adjustable stop plank for a power tool includes a drive mechanism connected to the stop plank for continuous adjustment of the angle of the stop plank with respect to the work surface and has a display for indicating the current angle of the stop plank. In one form, the [[A]] micro-adjusting device for the [[angle]] stop plank of a planer power tool includes a hand wheel unit provided on the holding frame and having a worm, a transmission rod provided in the holding frame to be rotated by the worm, an upper connecting rod meshed with and actuated to move back and forth by a transmission gear fixed on one end of the transmission rod and having one end pivotally connected with a stop plank, and a lower connecting rod having its opposite ends respectively connected pivotally with the stop plank and the holding frame to form two pivotal joints serving as turning fulcrums. When the hand wheel unit is turned around, the upper connecting rod is actuated to pull or push the upper portion of the stop plank, and the lower connecting rod together with the turning fulcrums micro-adjusts the stop plank at a required angle operable to continuously adjust the angle of the stop plank. The power tool may include indicia to indicate a plurality of angles for the stop plank and an index for indicating on the indicia the current angle of the stop plank.

OFFICE ACTION

1/25/2005



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,324	09/08/2003	Bor Yann Chuang	BHT-3117-157	9202
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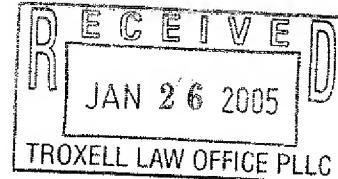
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FEB 02 2005

BY: DG

Response Due 4/25/05

Please find below and/or attached an Office communication concerning this application or proceeding.



Office Action Summary	Application No. 10/656,324	Applicant(s) CHUANG, BOR YANN
	Examiner Shelley Self	Art Unit 3725

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1 and 7 is/are rejected.
- 7) Claim(s) 2-6 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 08 September 2003 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some *
 - c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____. | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
6) <input type="checkbox"/> Other: _____. |
|--|--|

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the *worm* (*clm. 1, line 9*) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled “Replacement Sheet” in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the examiner does not accept the changes, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities:

- Claim 1, line 1 “*atop*” should be –a stop--

•Claim 4, line 3, “is shaped a plate” is unclear

Appropriate correction is required.

Claim Objections

Claim 4 is objected to because of the following informalities: line 3, the term, “*shaped a plate*” is not clear. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. With regard to claim 1, the phrase, “at one side” (line 4) is not clear. For example it is not clear as to whether the wood conveying table is connected to the holding frame at one side of the holding frame or if the holding frame is connected to the wood conveying table at one side of the conveying table. Clarification is required.

Further, it is unclear if “a preset part of said holding frame” referred to in lines 12 and 13 is the same as that referred to in line 10. Examiner suggests, --said preset part....--- Clarification is required.

With regard to claim 7, there is no antecedent basis for the term, “*said multiple row teeth*”. Correction is required.

Claim 1 would be allowable if re-written to overcome the 35 U.S.C. 112 rejection(s).

Allowable Subject Matter

Claims 2-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and if any 35 U.S.C 112 rejections were overcome.

The following is an Examiner's statement of reasons for allowance: The art of record does not disclose a micro-adjusting device for an angle stop planer having a hand wheel, an upper and lower connecting rod pivotally connected with the stop plank and holding frame and a *transmission rod transversely inserted in the holding frame having an end formed with a worm wheel the worm wheel meshed with a worm of the hand wheel and the other end formed with a transmission gear* as set forth in claim 1.

Eschenburg discloses a micro-adjusting means for an angle stop plank/abutment having a holding frame (52), a upper (63) and lower (58) connecting rod pivotally connected to the holding frame and angle stop plank/abutment (50). Eschenburg does not disclose any transmission rod having an end formed to mesh with a hand wheel or the other end formed with a transmission gear. Eschenburg teaches adjustment of the angle stop planar/abutment made via a locking bolt (68), nut (70) and handles (71, 75). Eschenburg discloses the rotation of handle (71) to position/adjust upper connecting rod (63) and handle (75) for adjusting/position of stop plank/abutment (50).

Neither the prior art of record nor a combination thereof discloses the claimed invention as set forth in claim 1. Accordingly, claim 1 contains allowable subject matter and would be allowable if re-written to overcome the 35 U.S.C. 112 rejection(s).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shelley Self whose telephone number is (571) 272-4524. The examiner can normally be reached Mon-Fri from 8:30am to 5:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Allen Ostrager can be reached at (571) 272-4521. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular and After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SSelf
January 18, 2005



DERREIS H. BANKS
SUPERVISORY PATENT EXAMINER
TELEPHONE NUMBER 572-4521

Notice of References Cited		Application/Control No.	Applicant(s)/Patent Under Reexamination	
		10/656,324	CHUANG, BOR YANN	
Examiner		Shelley Self	Art Unit	Page 1 of 1
3725				

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-2,872,957	02-1959	ESCHENBURG WILLIAM A	144/253.8
	B	US-5,533,557	07-1996	Jedlicka et al.	144/253.8
	C	US-6,026,870	02-2000	Liu, Ming-Huang	144/253.8
	D	US-5,022,447	06-1991	Monobe, Juzaburo	144/251.1
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

AMENDMENT B

7/25/2005

Xun LEI et al. EEC
Application No. 10/656,324, Filed September 8, 2003 7/25/2005
"MICRO-ADJUSTMENT DEVICE FOR THE STOP PLANK
OF A POWER TOOL"
Art Unit 3725; Examiner Shelly M. SELF
Confirmation No. 9202 7203/82350

1. AMENDMENT TRANSMITTAL (2 pp, in duplicate);
2. PETITION FOR EXTENSION OF TIME (1 pp, in duplicate);
3. AMENDMENT B (13 pp);
4. APPENDIX to Amendment B (3pp, including Annotated Sheet Showing Changes,
1 Sheet, and Replacement Sheet, 1 Sheet)
5. COPY of Documents mailed to USPTO on October 28, 2004 (70 pp);
CHARGE DEPOSIT ACCOUNT: \$1,020.00 – Fee for Extension of Time

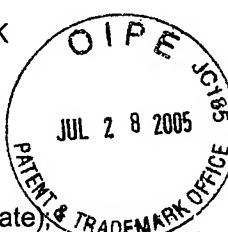
Hon. Commissioner of Patents and Trademarks

Sir:

**Please acknowledge receipt of the above-identified documents by applying the
Patent and Trademark Office receipt stamp hereto and mailing this card.**

Respectfully,
FITCH, EVEN, TABIN & FLANNERY

Xun LEI et al. EEC
Application No. 10/656,324, Filed September 8, 2003 7/25/2005
"MICRO-ADJUSTMENT DEVICE FOR THE STOP PLANK
OF A POWER TOOL"
Art Unit 3725; Examiner Shelly M. SELF
Confirmation No. 9202 7203/82350

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1. AMENDMENT TRANSMITTAL (2 pp, in duplicate);
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1 Sheet, and Replacement Sheet, 1 Sheet)
 5. COPY of Documents mailed to USPTO on October 28, 2004 (70 pp);
CHARGE DEPOSIT ACCOUNT: \$1,020.00 – Fee for Extension of Time

Hon. Commissioner of Patents and Trademarks

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**Please acknowledge receipt of the above-identified documents by applying the
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Respectfully,
FITCH, EVEN, TABIN & FLANNERY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln No.:	10/656,324)	Confirmation No. 9202
Filed:	September 8, 2003)	<hr/>
Applicants:	Xun LEI et al.)	CERTIFICATE OF MAILING
Title:	MICRO-ADJUSTMENT DEVICE FOR THE STOP PLANK OF A POWER TOOL)	I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O Box 1450, Alexandria, VA 22313-1450, on this date.
Art Unit:	3725)	<hr/>
Examiner:	Shelly M. SELF)	<hr/>
Attorney Docket:	7203/82350)	<hr/>
Customer No.:	22242)	<hr/>

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DOCKETED

JUL 26 2005

BY

Sir:

Transmitted herewith is an amendment/reply in the above-identified application.

- An Appendix including amended drawing figures labeled as "Annotated Sheet Showing Changes" and "Replacement Sheet" is enclosed.
- A Petition for Extension of Time for reply within the third month is attached.
- A copy of the documents mailed to the United States Patent and Trademark Office on October 28, 2004, including a copy of the stamped postcard (1p), an Amendment Transmittal (2 pp), Correction Regarding Small Entity Status (2 pp), Information Disclosure Statement (2 pp), Form PTO/SB/08b (1 Sheet, 1 Document (32 pp)), Preliminary Amendment (9 pp) with attached Substitute Specification (8 pp), Marked Up Copy Of Substitute Specification (9 pp), Substitute Abstract (2 p), Marked Up Copy Of Abstract (2 p), is attached.

Application No. 10/656,324
AMENDMENT B dated July 25, 2005
Reply to Office Action of January 25, 2005

- No additional fee is required.

Fee Calculation For Claims As Amended

	As Amended	Previously Paid For	Present Extra	Rate	Additional Fee
Independent Claims	<u>3</u>	<u>3</u>	<u>0</u>	x \$ 200.00	\$ 0.00
Total Claims	<u>22</u>	<u>22</u>	<u>0</u>	x \$ 50.00	\$ 0.00
Fee for Multiple Dependent Claims				\$ 360.00	\$ 0.00
** At least 3				Total Additional Fee	\$ 0.00
* At least 20					

- Applicant(s) assert entitlement to Small Entity Status (37 C.F.R. § 1.27), thus reducing the fee by half to: _____

- A check in the amount of \$ _____ is enclosed.
- Charge \$ _____ to Deposit Account No. 06-1135.
- The Commissioner is hereby authorized to charge any additional fees which may be required in this application under 37 C.F.R. §§1.16-1.17 during its entire pendency, or credit any overpayment, to Deposit Account No. 06-1135. Should no proper payment be enclosed herewith, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1135. A duplicate copy of this sheet is enclosed.

July 25, 2005

Date



Edward E. Clair

Registration No. 51,565

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120 South LaSalle Street, Suite 1600
Chicago, Illinois 60603-3406
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Facsimile: (312) 577-7007

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln No.:	10/656,324)	Confirmation No. 9202
Filed:	September 8, 2003)	
Applicants:	Xun LEI et al.)	
Title:	MICRO-ADJUSTMENT DEVICE FOR THE STOP PLANK OF A POWER TOOL)	I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this date.
Art Unit:	3725)	
Examiner:	Shelly M. SELF)	<u>Edward E. Clair</u> Date 7/25/2005 Edward E. Clair Registration No. 51,565 Attorney for Applicant(s)
Attorney Docket:	7203/82350)	
Customer No.:	22242)	

PETITION FOR EXTENSION OF TIME

Applicant(s) hereby petition(s) under 37 CFR §1.136(a) for an extension of time for reply in the above-identified application for the period required to make the accompanying reply timely, or, if there be no accompanying reply, for the period for which the fee is indicated or the period necessary to prevent abandonment of the above-identified application if longer than the period for which the fee is indicated.

Extension fee for reply within third month:

By a small entity (§1.27(a)) \$ 510.00
 By other than a small entity \$1,020.00

- Charge \$ 1,020.00 to Deposit Account No. 06-1135.
 The Commissioner is hereby authorized to charge any additional fees which may be required in this application under 37 C.F.R. §§1.16-1.17 during its entire pendency, or credit any overpayment, to Deposit Account No. 06-1135. Should no proper payment be enclosed herewith, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1135. This sheet is filed in duplicate.

July 25, 2005

Date

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln No.: 10/656,324

Confirmation No. 9202

Filed: September 8, 2003

CERTIFICATE OF MAILING

Applicants: Xun LEI et al.

Title: MICRO-ADJUSTMENT DEVICE
FOR THE STOP PLANK OF A
POWER TOOL

Art Unit: 3725

Examiner: Shelly M. SELF

Attorney Docket No.: 7203/82350

Customer No.: 22242

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this date.

7/25/2005

Date 
Edward E. Clair
Registration No. 51,565

Attorney for Applicant(s)

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

AMENDMENT B

Sir:

This document is being filed in response to the Office Action mailed January 25, 2005 (hereinafter the "Office Action"), and is divided into the following sections:

Amendments to the Specification and Abstract begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begin on page 3 of this paper.

Amendments to the Drawings begin on page 9 of this paper.

Remarks/Arguments begin on page 10 of this paper.

An **Appendix** including amended drawing FIG. 2 is attached following page 13 of this paper.

Application No. 10/656,324
AMENDMENT B dated July 25, 2005
Reply to Office Action of January 25, 2005

AMENDMENTS TO THE SPECIFICATION

Initially, Applicants note that their Preliminary Amendment submitted on October 28, 2004 appears not to have been considered or entered in the instant application. Thus, Applicants have attached hereto a copy of the October 28, 2004 Preliminary Amendment (and accompanying papers) and respectfully request that the amendments set forth therein be considered and entered in the instant application.

With respects to amendments to the specification, Applicants note that the October 28, 2004 Preliminary Amendment included a substitute specification and abstract for the Examiner's review as well as marked up copies of the substitute specification and abstract illustrating the changes made thereto. Applicants submit that the substitute specification and abstract include no new matter and should be used in place of the previous versions of the specification and abstract, which Applicants respectfully request be canceled.

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Reply to Office Action of January 25, 2005

AMENDMENTS TO THE CLAIMS

With respect to amendments to the claims, Applicants submit that the October 28, 2004 Preliminary Amendment made several amendments to the claims and respectfully request that the amendments set forth therein be considered and entered in the instant application.

For the purposes of the instant Amendment, Applicants will treat the claims as if the amendments to claims 1-7 set forth in the October 28, 2004 Preliminary Amendment had been entered so that any new amendments to these claims (*i.e.*, amendments presented for the first time in this paper) will be more easily seen and hopefully understood. Applicants will also identify claims 8-22, which were added in the October 28, 2004 Preliminary Amendment, as "not entered" to indicate that these claims were previously submitted but not entered.

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

WHAT IS CLAIMED IS:

1. (Currently amended) A micro-adjusting device for the angle [[atop]] stop plank of a planer comprising:

a wood conveying table, said wood conveying table connected with a holding frame at one side; and said holding frame connected with a stop plank, said stop plank positioned at one side on the top side of said wood conveying table for positioning a wood material, and further comprising:

a hand wheel unit composed of a hand wheel and a worm, said worm actuated by said hand wheel to rotate, and said worm being inserted in a preset part of said holding frame;

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a transmission rod inserted in a preset part of said holding frame, said transmission rod having one end formed with a worm wheel, said worm wheel meshed with said worm of said hand wheel unit, said transmission rod having the other end formed with a transmission gear;

an upper connecting rod having its front end pivotally connected with a preset part on the rear wall of said stop plank, said upper connecting rod having its rear end formed with a guiding groove, said guiding groove having its upper edge provided with multiple teeth, said multiple teeth meshed with said transmission gear of said transmission rod;

a lower connecting rod having its rear end pivotally connected with said holding frame, said lower connecting rod having its front end pivotally connected with said stop plank; and

said hand wheel turned to actuate said upper connecting rod to move back and forth through said worm, said upper connecting rod pulling or pushing said stop plank, said stop plank able to be freely adjusted and positioned at a required angle by the turning fulcrums respectively formed at the front and the rear pivotal joint of said lower connecting rod.

2. (Previously Presented) The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said holding frame has an accommodating space formed in the center for receiving said upper connecting rod therein and a locking handle inserted in the opposite side of said transmission rod, said locking handle having its end connected to a lock, said lock fitted in the opposite side of said guiding groove of said upper connecting rod, said lock able to tighten or release said upper connecting rod when said locking handle is actuated.

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3. (Previously Presented) The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said holding frame is formed integral with a stop base protruding upward on one side generally abutting said upper connecting rod, and said stop base has a stop block pivotally provided thereon, said stop block able to be turned inward and positioned on said upper connecting rod in due time, said upper connecting rod provided with a bolt base protruding upward at a preset part on the top side and a stop bolt connected to said bolt base, said stop plank able to be quickly adjusted and positioned at a right angle when said stop bolt and said stop block push against each other.

4. (Previously Presented) The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said lower connecting rod is shaped like a plate having a stop bolt positioned at a preset location on the top side, said stop bolt pushing against a preset part on the rear wall of said stop plank when said stop plank is adjusted, thus said stop plank able to be quickly adjusted and positioned at an exterior angle of 45 degrees.

5. (Previously Presented) The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said upper connecting rod has a stop bolt positioned at a preset location on the top side, said stop bolt exactly pushing against a preset part on the top side of said lower connecting rod when said stop plank is adjusted, thus said stop plank able to be quickly adjusted and positioned at an interior angle of 45 degrees.

6. (Previously Presented) The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said upper connecting rod has the

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top side above said guiding groove provided with a graduated ruler having angle graduations marked thereon, and said holding frame has its top side provided with an index hand pointing to said graduated ruler to indicate a positioning angle of said stop plank after said stop plank is adjusted.

7. (Previously Presented) The micro-adjusting device for the angle stop plank of a planer as claimed in Claim 1, wherein said multiple teeth in said guiding groove of said upper connecting rod form a rack directly fixed in said guiding groove from the upper side of said upper connecting rod.

8. (Not entered) An adjustable stop plank for a power tool having a work surface, the adjustable stop plank further comprising:

a drive mechanism connected to the stop plank for continuous adjustment of the angle of the stop plank with respect to the work surface within a predetermined range of angles; and

an actuator for operating the drive mechanism to adjust the angle of the stop plank.

9. (Not entered) An apparatus according to claim 8, wherein the drive mechanism has an interface with at least one tooth that allows the stop plank to be moved to different angles with respect to the work surface.

10. (Not entered) An apparatus according to claim 8, wherein the drive mechanism includes components having a meshed interface which cooperate to adjust the angle of the stop plank.

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11. (Not entered) An apparatus according to claim 8, wherein the drive mechanism has a threaded interface that allows the stop plank to be moved to different angles with respect to the work surface.

12. (Not entered) An apparatus according to claim 11, wherein the threaded interface comprises a worm gear having a worm driven by the actuator, the worm engages a wheel connected to the stop plank so that movement of the actuator will adjust the angle of the stop plank.

13. (Not entered) An apparatus according to claim 8, wherein the actuator is hand operated to adjust the angle of the stop plank.

14. (Not entered) An apparatus according to claim 11, wherein the hand operated actuator is a spindle movable in a clockwise direction to adjust the angle of the stop plank in a first direction and movable in a counterclockwise direction to adjust the angle of the stop plank in a second direction.

15. (Not entered) An apparatus according to claim 8, further comprising at least one stop to obstruct movement of the stop plank beyond at least one predetermined angle.

16. (Not entered) An apparatus according to claim 15, wherein the at least one stop comprises an adjustable hinderer which may be adjusted to obstruct movement of the stop plank beyond the at least one predetermined angle.

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17. (Not entered) An apparatus according to claim 15, wherein the at least one stop comprises an adjustable bolt that obstructs movement of the stop plank beyond a predetermined angle.

18. (Not entered) An apparatus according to claim 8, wherein the actuator may be rotated in a clockwise or counterclockwise direction to make micro-adjustments to the angle of the stop plank.

19. (Not entered) An apparatus according to claim 8, further comprising a display for indicating the current angle of the stop plank.

20. (Not entered) An apparatus according to claim 19, wherein the display comprises:

indicia to indicate a plurality of angles for the stop plank; and
an index for indicating on the indicia the current angle of the stop plank.

21. (Not entered) A planar comprising:
~~a base having a workpiece support table and~~ ^{Wavy}
positioning a workpiece; and

a display for indicating the current angle of the stop plank with respect to the workpiece support table.

22. (Not entered) An apparatus according to claim 21 wherein the display further comprises:

indicia to indicate a plurality of angles for the stop plank; and
an index for indicating on the indicia the current angle of the stop plank.

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AMENDMENT B dated July 25, 2005
Reply to Office Action of January 25, 2005

AMENDMENTS TO THE DRAWINGS

The attached drawing sheet includes changes to FIG. 2 and is meant to replace the original sheet including FIG. 2. In the attached drawing sheet, the duplicate occurrence of reference numeral "41" in FIG. 2 has been changed to "42" in order to identify the worm gear identified in claim 1, line 9.

Attachments: Replacement Sheet of Drawings including FIG. 2;
 Annotated Sheet of Drawings including FIG. 2.

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AMENDMENT B dated July 25, 2005
Reply to Office Action of January 25, 2005

REMARKS

Upon entry of the instant Amendment, Claims 1-22 are pending in the above-captioned application. In the Office Action, the drawings were objected to under 37 CFR §1.83(a) and claims 1 and 4 were objected to for various informalities. Claims 1 and 7 were rejected under 35 U.S.C. §112, second paragraph, and claims 2-6 were identified as being allowable if rewritten in independent form and amended to overcome any 35 U.S.C. §112 rejections attributable to claim 1. For convenience, Applicants will address each of these objections/rejections separately below.

I. Allowable Subject Matter

Applicants note with appreciation the determination that claims 2-6 contain allowable subject matter and would be allowable if rewritten in independent form and amended to overcome any 35 U.S.C. §112, second paragraph, rejections attributable to claim 1. (See Office Action, p. 4). Applicants also note with appreciate the determination that claim 1 contains allowable subject matter and would be allowable if re-written to overcome the 35 U.S.C. §112 rejections.

Applicants have amended independent claim 1 to overcome the rejection under 35 U.S.C. §112, second paragraph, and submit that claims 1-6 are in condition for allowance for the reasons specified below in Section IV. As these amendments have slightly changed the wording of claim 1, and specifically the language cited in the reasons for allowance, Applicants will not address the specific statement of reasons for allowance until a Notice of Allowance or further correspondence from the USPTO are received.

Application No. 10/656,324
AMENDMENT B dated July 25, 2005
Reply to Office Action of January 25, 2005

II. Drawing Objections Under 37 C.F.R. §1.83(a)

In the Office Action, the drawings were objected to under 37 C.F.R. §1.83(a) because they fail to show each and every feature of the invention specified in the claims. More particularly, the drawings were objected to because they failed to show the "worm" identified in claim 1, line 9.

Applicants have amended the second drawing sheet containing FIG. 2, in order to replace the duplicate occurrence of reference numeral "41" in FIG. 2 with reference numeral "42" and clarify that the worm identified in claim 1, line 9 is indeed shown in the drawings. Support for this amendment may be found throughout the specification and drawings, and in particular, at paragraphs 19, 20, 23, 28 and 29 of the Substitute Specification submitted along with the October 28, 2004 Preliminary Amendment and in FIGS. 2, 4 and 8 of the drawings.

Thus, Applicants submit that the drawings are in condition for acceptance and such acceptance is respectfully requested herein.

III. Objections to Claims 1 and 4 for Informalities.

In the Office Action, claims 1 and 4 were objected for various informalities. More particularly, claim 1 was objected to for specifying "atop" rather than "a stop" and claim 4 was objected to because the phrase "is shaped a plate" was unclear. Applicants have amended claim 1 to change "atop" to "a stop" and note that the October 28, 2004 Preliminary Amendment inadvertently corrected this error without showing the change that had been made. Thus, the correction is shown in the amendments to the claims illustrated herein. Support for this amendment may be found throughout the application, and in particular, in the title of the application and on pages 1-7 of the specification.

Application No. 10/656,324
AMENDMENT B dated July 25, 2005
Reply to Office Action of January 25, 2005

In the October 28, 2004 Preliminary Amendment, Applicants corrected claim 4 to clarify that the "lower connecting rod is shaped like a plate" rather than "shaped a plate." Support for this amendment may be found throughout the application, and in particular, in paragraph 21 of the Substitute Specification submitted along with the October 28, 2004 Preliminary Amendment and in FIG. 5 of the drawings.

Thus, Applicants submit that the objections to claims 1 and 4 have been addressed and respectfully request reconsideration and allowance of these claims. Applicants further note that the amendments to claims 1 and 4 are neither narrowing amendments nor amendments made for the purposes of patentability. Therefore, no equivalences are intended to be surrendered by the making of these amendments.

IV. Rejections Under 35 U.S.C. §112, Second Paragraph

In the Office Action, claims 1 and 7 were rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applications regard as their invention. More particularly, claim 1 was rejected because the phrases "at one side" and "a preset part" were not clear and claim 7 was rejected because there was no antecedent basis for the term "said multiple row teeth."

Applicants have amended claim 1 to delete the phrases "at one side" and "a preset part" in order to clarify what is being claimed in claim 1. Support for these amendments may be found throughout the application, and in particular, in paragraphs 15-33 of the Substitute Specification accompanying the October 28, 2004 Preliminary Amendment and in FIGS. 1-8.

With respect to claim 7, Applicants note that the October 28, 2004 Preliminary Amendment amended claims 1 and 7 to remove references to "multiple

Application No. 10/656,324
AMENDMENT B dated July 25, 2005
Reply to Office Action of January 25, 2005

row teeth." This amendment appears to address the antecedent basis issues raised in the Office Action.

Thus, Applicants submit that the rejections of claims 1 and 7 have been overcome and respectfully request reconsideration and allowance of these claims. Applicants further note that the amendments to claims 1 and 7 are neither narrowing amendments nor amendments made for the purposes of patentability. Therefore, no equivalences are intended to be surrendered by the making of these amendments.

V. Conclusion

In view of the foregoing, Applicants submit that claims 1-22 are patentable over the cited references and hereby respectfully request reconsideration and allowance of claims 1-22.

Respectfully submitted,
FITCH, EVEN, TABIN & FLANNERY

Dated: July 25, 2005


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Enclosures

APPENDIX

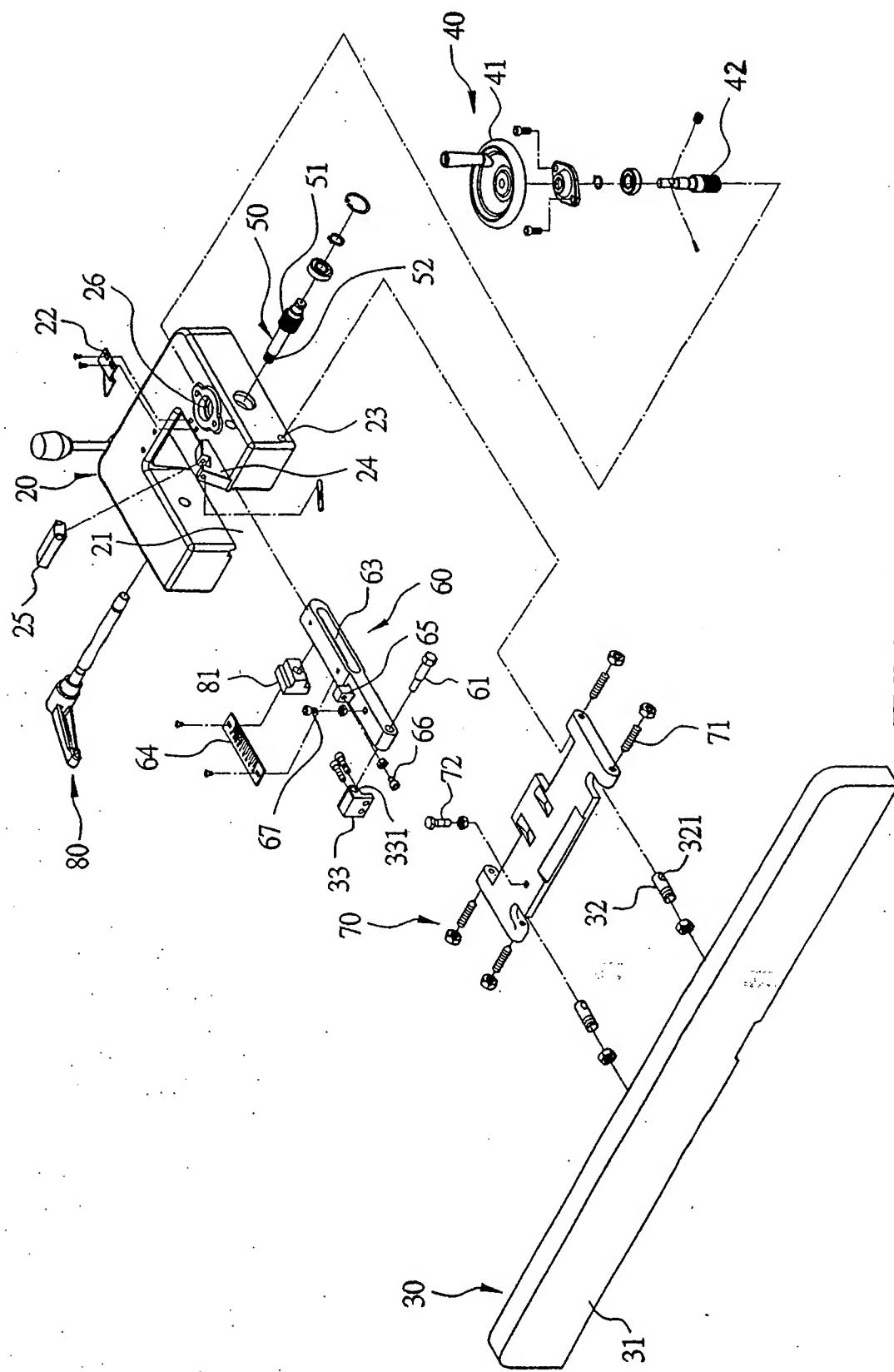


FIG. 2

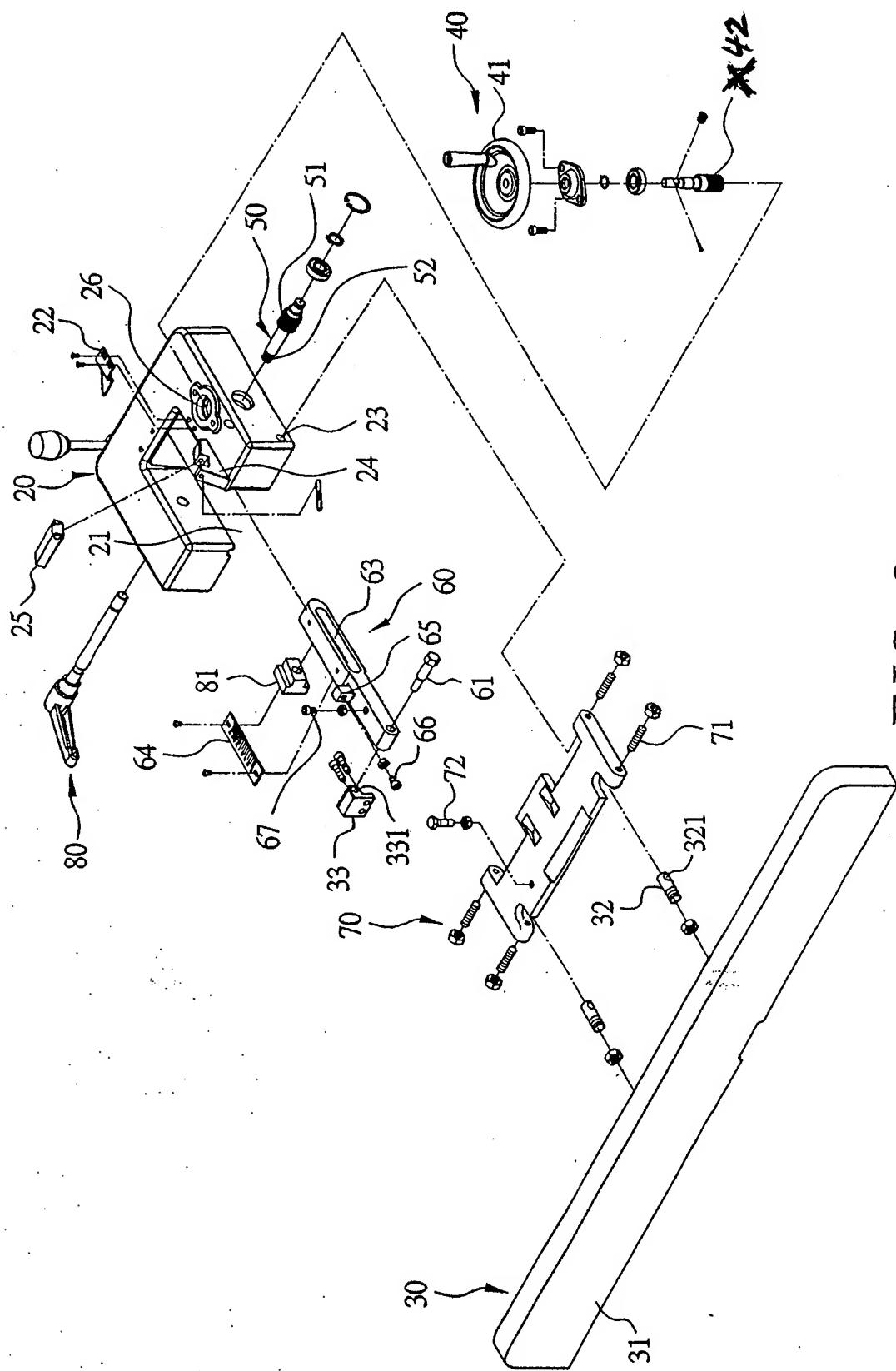


FIG. 2

**NOTICE OF ALLOWANCE AND FEES DUE
5/1/2008**



UNITED STATES PATENT AND TRADEMARK OFFICE

24

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NOTICE OF ALLOWANCE AND FEE(S) DUE

22242 7590 05/01/2008

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CHICAGO, IL 60603-3406

EXAMINER

SELF, SHELLEY M

ART UNIT

PAPER NUMBER

3725

DATE MAILED: 05/01/2008

Issue fee due 5/1/08

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,324	09/08/2003	Bor Yann Chuang	7203/82350	9202

TITLE OF INVENTION: MICRO-ADJUSTMENT DEVICE FOR THE ANGLE STOP PLANK OF A PLANER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/01/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

- I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

22242 7590 05/01/2008

FITCH EVEN TABIN AND FLANNERY
 120 SOUTH LA SALLE STREET
 SUITE 1600
 CHICAGO, IL 60603-3406

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

	(Depositor's name)
	(Signature)
	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,324	09/08/2003	Bor Yann Chuang	7203/82350	9202

TITLE OF INVENTION: MICRO-ADJUSTMENT DEVICE FOR THE ANGLE STOP PLANK OF A PLANER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/01/2008
EXAMINER		ART UNIT	CLASS-SUBCLASS			
SELF, SHELLEY M		3725	144-253800			

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). <input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. <input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47, Rev 03-02 or more recent) attached. Use of a Customer Number is required.	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
	1 _____ 2 _____ 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. The following fee(s) are submitted:

- Issue Fee
- Publication Fee (No small entity discount permitted)
- Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- A check is enclosed.
- Payment by credit card. Form PTO-2038 is attached.
- The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,324	09/08/2003	Bor Yann Chuang	7203/82350	9202
22242	7590	05/01/2008		
FITCH EVEN TABIN AND FLANNERY 120 SOUTH LA SALLE STREET SUITE 1600 CHICAGO, IL 60603-3406				EXAMINER SELF, SHELLEY M
		ART UNIT 3725		PAPER NUMBER
DATE MAILED: 05/01/2008				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	App'l cant(s)
	10/656,324	CHUANG, BOR YANN
	Examiner Shelley Self	Art Unit 3725

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to 4/23/08.
2. The allowed claim(s) is/are 1-7, 12 and 28.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None
 of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of
 Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application
6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

/Shelley Self/
Primary Examiner, Art Unit 3725

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,392,830

APPLICATION NO.: 10/656,324

ISSUE DATE : 07/01/2008

INVENTOR(S) : Xun Lei et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

FACE OF PATENT:

Section [54]: delete "Micro-Adjustment Device For The Angle Stop Plank Of A Planar" and insert

--Micro-Adjustment Device For The Stop Plank Of A Power Tool--, therefor.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Fitch, Even, Tabin & Flannery
120 So. LaSalle Street, Suite 1600
Chicago, Illinois 60603-3406

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.